

NOOR UL AMIN

Student

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► EDUCATION

- Bachelor of Computer Science
Specialization: AI Extension; Data Science
Taylor's University,
Subang (2023 – 2026)
- Cambridge A-Levels at
Taylor's College,
Subang (2022 – 2023)
- IGCSE at Taylor's Int'l
School, Puchong (2020-
2021)

► SKILLS

- Data Visualization,
Analysis and
Preprocessing
- MySQL, Java, Python,
HTML, CSS
- Leadership skills
- Problem solving
- Proficient in Microsoft
Office Suite
- Anticipation to
discover new things.
- Discipline and
honesty in work

► AWARDS

- Taylor's Dean's List
Award for Feb. 2024
semester
- Taylor's Dean's List
Award for Feb 2025
semester

► PROFESSIONAL SUMMARY

I am a third year Computer Science student curious to work in a real-life environment and forge new connections and discover and try new applications and technologies. I have limited hands-on experience in Java, Python, Data preprocessing and visualization, MySQL and in research in computer-related topics. I look forward to increasing my experience through exposure to more opportunities.

► SELECTED PROJECTS

Δ Haze Alert App

My first ever coding group project. We made a basic Java app in NetBeans IDE that collects info about haze in Malaysia and allows users to take precautionary measures accordingly.

Δ SkyRunner Game

We combined features of Cyberpunk and Google's dinosaur game to create a Java-based game where you drive a flying car while dodging obstacles in a futuristic cyberpunk-themed Dubai.

Δ GrowHub Web Application

We developed an app that allowed farmers, suppliers, investors and technology to connect with each other to create a sustainable agricultural ecosystem. Built with Next.js and modern web technologies.

Δ Using Machine Learning to predict Student performance based on given data

We developed a Machine Learning model that predicted student grades based on the information we fed to it through our dataset.

Δ 2012-2014 US Drug Overdose deaths data preprocessing and Analysis

I individually preprocessed the dataset and used FP Growth and Apriori Algorithms to find out which drug combinations were the deadliest in these overdose cases.

Δ Using Machine Learning to predict Depressed vs Normal state of people

We made a machine learning model that would take in input of data in form of phrases from the dataset and then use it to predict whether the person was depressed or in a normal state

△ Flag Emoji recognizer app

A small app made in Python that helps recognize flag emojis based on characteristics given by the user – for now its limited to South Asia but plan is to extend it to worldwide flags

△ English Cyrillic Script convertor

Made a small app in Python that converts English text from its traditional Latin script to a Cyrillic one – that I created myself – to help people using Cyrillic script get adjusted to English Latin alphabets.

► VOLUNTEERING EXPERIENCE



- △ Logo designer and Event managing volunteer at Taylor's Compute Compete Conquer' (CCC) Supercomputer Poster competition (June 2025)

► HOBBIES

- △ Video Games
- △ Gym
- △ Running
- △ Researching History
- △ Making YouTube videos for my channel

► SELECTED PUBLICATIONS

- △ Noor Ul Amin, Mohamad Fayyadh bin Abdul Aziz, Dinesh A/L K. Devaendran, Tan Yung Eun, Alysha Yasmine Binti M Yahya. "**Telehealth Monitoring System for Chronic Disease Management**". International Journal of Emerging Multidisciplinaries. 2024. Available at:
<https://ojs.ijemd.com/index.php/ComputerScienceAI/article/view/271>

- △ Noor Ul Amin, Syed Muhammad Dayyan Shah, Shadman Sakib Sadvi, Al-Hamza Habeb Waed Awad. "**Pokémon Classification Using Convolutional Neural Networks: A Deep Learning Approach for Fine-Grained Image Recognition**". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202502.1282/v1>

- △ Noor Ul Amin, Mridul Bhattacharjee, Junayen Ansari, Fuad Muhammad Nasrullah, Fardeen Sameer Khan, Huzaib Wadoo. "**Enhancing the Dining Experience: Improving Jom Tarik Restaurant Software at Taylor's University for Increased Convenience and Customer Satisfaction**". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202501.0791/v1>

- △ Noor Ul Amin, Mridul Bhattacharjee, Junayen Ansari, Fuad Muhammad Nasrullah, Fardeen Sameer Khan, Huzaib Wadoo "**Jom Tarik Ordering Management System**". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202501.0865/v1>

- △ Noor Ul Amin, Ahmed Abdullah Alsukhailah, Ahmed Abdullah Faisal Ghaleb, Mohammed Abdullah Ahmed Mobarak, Hatem Ahmed Algaafari, Huzaib

LANGUAGES

- English – full proficiency
- Urdu – full proficiency
- Arabic – intermediate level
- Sindhi – intermediate level

- Wadoo, Salman Zaman. "Design and Implementation of a Database System for Event Management Customizer (EMC): A Case-Based Approach". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202501.0872/v1>
- △ Noor Ul Amin, Ansari Adip Junayen, Fuad Muhammad Nasrullah, Mohsin Mushtaq, Ahmed Abdullah Alsukhailah. "Design and Implementation of a Scalable Network Infrastructure for a Mid-Sized Organization". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202501.0890/v1>
- △ Noor Ul Amin, Mohsin Mushtaq, Hatem Ahmed Algaafari, Ahmed Abdullah Faisal Ghaleb, Ariffin Islam Rafeen, Al-Hamza Habeb Waed Awad. "Sky Runner Game". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202501.1330/v1>
- △ Noor Ul Amin, Ali Danial Shahzad, Muhammad Hamza Abid, Muhammad Yamin Muiz, Temirlan Suleimanov, Muhammad Shabir Abdul Razick. "Evolution of Computing Paradigms: A Comprehensive Analysis of Cloud Computing". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202501.1286/v1>
- △ Noor Ul Amin, Ali Danial Shahzad, Muhammad Hamza Abid, Muhammad Yamin Muiz, Temirlan Suleimanov, Muhammad Shabir Abdul Razick. "The Role and Application of Hypervisors in Modern Organizations". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202501.1355/v1>
- △ Noor Ul Amin Jhanji, Fardeen Sameer Khan, Mohamud Abdi, Hans Andre Bin Azwan Rasyid, Shahriar Hossain Istiq, Liu Jiakang, Shadman Sakib Sadvi. "The Rise of GPS Spoofing Attacks on Drones in the Russia-Ukraine War". TechRxiv. 2025. Available at:
<https://www.techrxiv.org/users/941604/articles/1312278-the-rise-of-gps-spoofing-attacks-on-drones-in-the-russia-ukraine-war?commit=4a58cc767e0c9e0bb3c005615069de2e3f4a0d42>
- △ Noor Ul Amin Jhanji, Mridul Bhattacharjee, Abdelrahman Mahmoud Mohamed Afifi Mohamed, Syed Athif Usman, Rozin Khan, Abdulrahman Alamoudi. "Space Odyssey: The Afterlife of a Crewmate – A Platformer Game Experience in Outer Space". TechRxiv. 2025. Available at:
<https://www.techrxiv.org/users/941604/articles/1312391-space-odyssey-the-afterlife-of-a-crewmate-a-platformer-game-experience-in-outer-space?commit=8acada0b08342fa4382d08ec7171bc2fc5b40e44>
- △ Noor Ul Amin , Mohamed Zeedhan, Charan Teja Nagisettygari. "Data Mining for Insights into Accidental Drug Mortality Trends in the U.S.". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202509.0251/v1>

- △ Noor UI Amin. "Leveraging Data Mining to Extract Accidental Drug Overdose Death Patterns: 2012-2014 US Dataset as Case Study". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202509.0260/v1>
- △ Noor UI Amin. "AI-Powered Pattern Mining for Drug Overdose Insights: Leveraging Apriori and FP-Growth". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202509.1193/v1>
- △ Noor UI Amin Jhanjhi, Muhammad Haris Firdaus bin Zainol Mahariq, Waleed Arnaout, Muhammad Yamin Muiz, Kao Cheng Yuan (Isaac), Kao Cheng Buo (Caleb), Tazreed Sabeel. "Enhancing Retail Efficiency: Optimizing Self-Checkout Systems for a Seamless Shopping Experience". TechRxiv. 2025. Available at:
<https://www.techrxiv.org/users/941604/articles/1312390-enhancing-retail-efficiency-optimizing-self-checkout-systems-for-a-seamless-shopping-experience?commit=5a35b6dde3a3c85d798fd818410d4e773a26b8a1>
- △ Hammad Ruxshan Juhardeen, Noor UI Amin, Swafa Salim Said Omar, Sakina Hussein Meena. "Leveraging Data Science for Enhanced Academic Outcomes: Insights from the Student Performance Dataset". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202501.1101/v1>
- △ Maria Hilal Baswaid, Farouq Fayed Faky Darir, Chia Yi Qin, Anastasia Prisca Sofian, Noor UI Amin. "Deep Learning-Based Ship Detection: Enhancing Maritime Surveillance with Convolutional Neural Networks". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202502.1354/v1>
- △ Syed Athif Usman, Mridul Bhattacharjee Ahmed Abdullah Alsukhalilah, Ali Danial Shahzad, Muhammad Shabir Abdul Razick, Noor UI Amin. "Identifying the Best-Selling Product Using Machine Learning Algorithms". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202502.1356/v1>
- △ Addy Arif Bin Mahathir, Charan Teja Nagisettygari, Noor UI Amin, Sai Rama Mahalingam, Sivamuganathan A/L Mohana Dass. "Real-Time Big Data Technologies in Retail: Enhancing Personalization and Operational Efficiency". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202509.0257/v1>
- △ Hatem Ahmed Algaafari, Hammad Ruxshan Juhardeen, Ahmed Muzaffar Arat, Khaled Sadeq Al Kharraz, Mohsin Mushtaq, Feng Weitao, Noor UI Amin. "Enhancing E-Commerce and Logistics Management for Şölen: A Digital Transformation Approach". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202502.1860/v1>
- △ Mohamad Fayyadh Bin Abdul Aziz, Noor UI Amin, Pavithra A/P Uthaya Kumaran, Ahmed Hossam Mahmoud Mahmoud Ahmed, Salman Zaman,

Nurul Syaziah binti Abdul Kareem, Chia Yi Qin. "Leveraging Java Programming for Climate Action: Developing a Solution to Address Air Quality and Sustainable Development Goal 13". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202501.0485/v1>

- △ Addy Arif Bin Mahathir, Lu Ee Shan, Adruce Bin Khairudin, Ng Ting Xi, Noor Ul Amin. "Predictive Modelling of Healthcare Insurance Costs Using Machine Learning". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202502.1873/v1>
- △ Adruce Bin Khairudin, Lee Jia Fong, Wadthanak Khongsuwan, Teh Yu Xiang, Bryan Thong Khai Junn, Noor Ul Amin. "Looking into Raw Material Costs Through Machine Learning to Improve Efficiency". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202502.1861/v1>
- △ Addy Arif Bin Mahathir, Phung Li Hang, Chan Zhun Hei, Lee Tong Hua, Noor Ul Amin. "Design and Implementation of a Relational Database System for Efficient Facility and Booking Management". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202503.0070/v1>
- △ Ahmed Abdullah Faisal Ghaleb, Ahmed Abdullah Alsukhailah, Amir Reza Delsouz Bahri, Bashar Shadman, Fahad Mukhtiyar, Hatem Ahmed Mohammed Al-Gaafari, Noor Ul Amin. "Exploring the Evolution and Impact of Quantum Computing: Paradigms, Performance, and Future Applications". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202503.0066/v1>
- △ Addy Arif Bin Mahathir, Haziq Mustaqim Bin Noradli, Aw Chi Xian, Mridul Bhattacharjee, Nurul Syaziah Binti Abdul Kareem, Samyutthia Ravi Chenther, Noor Ul Amin. "Advancements in IoT-Based Healthcare Monitoring and Memory Hierarchy in Computing A Comprehensive Analysis of Smart Medical Devices and Digital Memory Systems". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202503.0021/v1>
- △ Mya Eirdina Sharn Kamel, Mark Aldrich Vincent Bin Buyun, Mohamad Fayyadh Bin Abdul Aziz, Brighton Moronda Moronda, Riyadh Usman Abdulqadir, Parishad Banaei Arani, Samia Islam, Noor Ul Amin. "Enhancing Campus Mobility: A Requirement Engineering Approach to a Carpool System for University Students and Staff". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202503.0977/v1>
- △ Addy Arif Bin Mahathir, Ahmed Abdullah Alsukhailah, Zahra Valizadeh Lakeh, Wilson Brooklyn Ma, Willson Juvent Suharyo, Mridul Bhattacharjee, Noor Ul Amin. "Climate Action Program (CAP) A Task-Based Approach to Public Engagement in Environmental Conservation". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202503.0042/v1>

- △ Lu Ee Shan, Mohamed Zeedhan, Maria Hilal Baswaid, Noor Ul Amin. "IoT-Based Heart Rate Monitoring: A Comparative Analysis of Microcontroller Systems for Real-Time Health Monitoring". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202503.0968/v1>
- △ Farouk Fayed Faky, Maria Hilal Baswaid, Nur Aliyah Zafirah Binti M Yusri, Noor Ul Amin. "Enhancing Fire Alarm Systems with Machine Learning: A Data-Driven Approach to Early Fire Detection". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202504.0733/v1>
- △ Mridul Bhattacharjee, Mohamed Muzni Mohamed Ziham, Rozin Khan, Syed Athif Usman, Mohamed Zeedhan, Abdelrahman Mahmoud Mohamed Afifi Mohamed. "High-Performance Computing: Evaluating Computing Paradigms, Scalability, and Real-World Applications". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202504.0723/v1>
- △ Shadman Sakib Sadvi, Hu Jiawei, Abdelrahman Mahmoud Mohamed Afifi Mohamed, Kelvin Chang, Jerry Wingsky, Noor Ul Amin. "Enhancing Mental Health Through Software Development: An Integrated Framework towards Enhanced Accessibility and User Engagement". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202504.1045/v1>
- △ Mohamed Zeedhan, Mohamed Muzni Mohamed Ziham, Muhammad Shabir Abdul Razick, Noor Ul Amin. "Predicting Obesity Classification Using k-Nearest Neighbors: A Data Science Approach in Python". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202504.1032/v1>
- △ Shadman Sakib Sadvi, Hu Jiawei, Abdelrahman Mahmoud Mohamed Afifi Mohamed, Kelvin Chang, Jerry Wingsky, Noor Ul Amin. "Enhancing User Experience in Mental Health Applications: The Better Mood System". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202504.1090/v1>
- △ Youssef El Hajj, Yee Yik Han, Youssef Ali Mahmoud Ali Ali Moussa, Ahmed Abdullah Alsukhailah, Addy Arif Bin Mahathir, Zaky Amrul Hakim, Huzaib Wadoo, Noor Ul Amin. "Evaluating the Use of Geometric Progression in Forecasting Hydropower and Ocean Energy Trends". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202504.1783/v1>
- △ Addy Arif bin Mahathir, Sivamuganathan Mohana Dass, Sai Rama Mahalingam, Dylan Chan Kit Lun, Ahmed Abdullah Faisal Ghaleb, Ahmed Abdullah Alsukhailah, Noor Ul Amin. "Enhancing Store Hub POS System: A User-Centric Redesign to Improve Efficiency, Compatibility, and Security for Retail and F&B Sectors". Preprints. 2025. Available at: <https://www.preprints.org/manuscript/202504.1736/v1>
- △ Addy Arif Bin Mahathir, Sivamuganthan Mohana Dass, Sai Rama Mahalingam, Samyutthia Ravi Chenthaler, Chan Zhun Hei, Noor Ul Amin. "Design and

Implementation of a Scalable and Secure Network Infrastructure for a Medium-Sized Enterprise". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202504.1862/v1>

- △ Addy Arif Bin Mahatir, Sivamuganathan Mohana Dass, Darrshan A/L Mahendran, Charan Teja Nagisettygari, Sai Rama Mahalingam, Asfa Haikal Bin Asrul Hazli, Noor Ul Amin. "**Integrating Cognitive Computing into Hospital Information Management Systems: A Comparative and Architectural Approach Using IBM Watson and Microsoft Azure". Preprints.** 2025. Available at:
<https://www.preprints.org/manuscript/202504.1778/v1>
- △ Addy Arif bin Mahathir, Sivamuganathan Mohana Dass, Sai Rama Mahalingam, Dylan Chan Kit Lun, Ahmed Abdullah Faisal Ghaleb, Ahmed Abdullah Alsukhailah, Noor Ul Amin. "**SwiftSell: A Holistic, Agile-Driven Point-of-Sale System for Enhancing Retail Efficiency and Customer Engagement". Preprints.** 2025. Available at:
<https://www.preprints.org/manuscript/202504.1899/v1>
- △ Mridul Bhattacharjee, Syed Athif Usman, Mohamed Muzni Mohamed Ziham, Rozin Khan, Muhammad Shabir Abdul Razick, Noor Ul Amin. "**Cognitive Computing and Cybersecurity Threat Mitigation: A Strategic Framework for Organizational Resilience". Preprints.** 2025. Available at:
<https://www.preprints.org/manuscript/202504.2532/v1>
- △ Syed Athif Usman, Mridul Bhattacharjee, Rozin Khan, Noor Ul Amin. "**Data Mining and Machine Learning Approaches for Analyzing Drug-Related Overdose Patterns and Risk Factors". Preprints.** 2025. Available at:
<https://www.preprints.org/manuscript/202504.2509/v1>
- △ Syed Athif Usman, Noor Ul Amin. "**Uncovering Patterns in Accidental Drug Overdose Deaths: A Data-Driven Approach Using Demographic and Substance-Specific Analysis". Preprints.** 2025. Available at:
<https://www.preprints.org/manuscript/202504.2580/v1>
- △ Syed Athif Usman, Noor Ul Amin. "**Association Rule Mining for Identifying High-Risk Drug Combinations in Overdose Fatalities: A Comparative Analysis of Apriori and FP-Growth Algorithms". Preprints.** 2025. Available at:
<https://www.preprints.org/manuscript/202504.2604/v1>
- △ Amir Reza Delsouz Bahri, Bashar Shadman, Fahad Mukhtiyar, Lim Lai Soon, Xinyi, Noor Ul Amin. "**The Role and Impact of Hypervisor Technology in Modern IT Infrastructure". Preprints.** 2025. Available at:
<https://www.preprints.org/manuscript/202505.1404/v1>
- △ Amir Reza Delsouz Bahri, Bashar Shadman, Eng Yan Pin, Fahad Mukhtiyar, Mohamad Naib, Noor Ul Amin. "**Design and Implementation of a Secure and Scalable LAN for a Midsized Company Using Cisco Packet Tracer". Preprints.** 2025. Available at:
<https://www.preprints.org/manuscript/202505.1550/v1>

- △ Amir Reza Delsouz Bahri, Bashar Shadman, Daine Hibonne, Eng Yan Pin, Fahad Mukhtiyar, Noor Ul Amin. "**Strategic Allocation of Renewable Energy Resources: A Multi-Objective Optimization Framework for Enhanced Efficiency and Social Equity**". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202505.1543/v1>
- △ Aarvesh Jaikrishin Belani, Amir Reza Delsouz Bahri, Ayaan Izhar, Bashar Shadman, Fahad Mukhtiyar, Priyanshu Das, Noor Ul Amin. "**Design and Implementation of an Enhanced Learning Management System: Addressing Modern Academic Challenges**". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202505.1522/v1>
- △ Mya Eirdina Sharn Kamel, Mark Aldrich Vincent Bin Buyun, Mohamad Fayyadh Bin Abdul Aziz, Brighton Moronda Moronda, Riyadh Usman Abdulqadir, Parishad Banaei Arani, Samia Islam, Noor Ul Amin. "**Designing a Secure and Efficient Campus Carpooling System: A Comprehensive Software Requirement Specification**". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202503.0991/v1>
- △ Muhammad Haris Firdaus bin Zainol Mahariq, Waleed Arnaout, Muhammad Yamin Muiz, Kao Cheng Yuan (Isaac), Kao Cheng Buo (Caleb), Tazreed Sabeel, Noor Ul Amin. "**Enhancing Retail Efficiency: Development and Evaluation of a Self-Checkout System**". Preprints. 2025. Available at:
<https://www.preprints.org/manuscript/202504.0761/v1>
- △ Khalid Hussain, Md Amin Ullah Sheikh, Thiha Naing, Manzoor Hussain, Noor Ul Amin. "**Reshaping Cybersecurity Practices by Optimizing Web Application Penetration Testing**" chapter in book "**Reshaping CyberSecurity With Generative AI Techniques**". IGI Global Scientific Publishing. 2024. Available at:
<https://www.igi-global.com/gateway/chapter/356779#pn!RecommendationForm>